

Purchase Order Receipt Listing

Tuesday, August 29, 2017 1:00:50 PM

Page 1 of 1

All amounts are calculated in domestic currency.

All Vendors PO ID PO37486 Receipt Dates from 8/29/2017 to 8/29/2017 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VC-CAM002 Acier Ouellette Inc. DAS											
PO37486	2		M2024T3S.040 sf	5	8/25/2017	8/29/2017	48.0000	\$3.39	0.0000	0	\$162.55
CAD	No		2024-T3 .040 sheet m138389	9-89	48.0000	PLOU01		\$162.55	0.0000	0	
	3		M2024T3S.063 sf		8/25/2017	8/29/2017	144.0000	\$5.42	0.0000	0	\$780.42
	No		2024-T3 .063 sheet m138389		144.0000	PLOU01		\$780.42	0.0000	0	
	4		M303H0.500 f	DAS	8/25/2017	8/29/2017	12.0000	\$3.40	0.0000	0	\$40.85
	No		303 HEX BAR .500 m138389	14 9-89	12.0000	PLOU01		\$40.85	0.0000	0	
	6		M303R0.625 f	DAS	8/25/2017	8/29/2017	12.0000	\$2.80	0.0000	0	\$33.64
	No		303 Round Bar 0.625" m138389	14 9-89	12.0000	PLOU01		\$33.64	0.0000	0	
	7		M303R1.000 f	DAS	8/25/2017	8/29/2017	24.0000	\$6.61	0.0000	0	\$158.60
	No		303 Round Bar 1.00 m138389	14 9-89	24.0000	PLOU01		\$158.60	0.0000	0	
	8		M304B0.750X2.500 f	DAS	8/25/2017	8/29/2017	12.0000	\$18.69	0.0000	0	\$224.28
	No		304 BAR .750 X 2.50 f m138389	14 9-89	12.0000	PLOU01		\$224.28	0.0000	0	
	14		M6061T6R0.563 f	DAS	8/25/2017	8/29/2017	204.0000	\$0.81	0.0000	0	\$165.63
	No		6061-T6 ROUND BAR .563 m138389	14 9-89	204.0000	PLOU01		\$165.63	0.0000	0	

Total Received Quantity: 456.0000
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$1,565.98
Total Balance Due Quantity: 0.0000



DELIVERY - CLIENT

CO00046808

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/08/22

Delivery date

2017/08/29

Your order N°

37486

Processed by

Frederic Leboeuf

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

1

Shipped to

DART AEROSPACE LTD
1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
1		ALU SHEET .040 (18G) 2024-T3 5A (4 X 12) FEAL-0404122024A 3117	27.02	48.00	PI2_\$CLB		1x	✓			
		1 X 4' X 12' BARE AC8551 - SA - 2017/08/24					4'x12'	✓			
2		ALU SHEET .064 (14G) 2024-T3 (4 X 12) FEAL-0644122024 3166	129.74	144.00	PI2_\$CLB		3x	✓			
		3 X 4' X 12' BARE AC8551 - SA - 2017/08/24					4'x12'	✓			
3		ROUND ALU 9/16 6061-T6 (12) RAL-916-12 5178	59.77	204.00	PI_\$CLB		17x	✓			
		17 X 12' AC8552 - TH - 2017/08/24					12'	✓			
4		FLAT SS 1/4 X 4 17-4 PH HRAP SOL ANN RANDOM NS FSS-144174PH-V 8746	40.80	12.00	PI			✓			
		1 X 12' R/L AC8549 - JG - 2017/08/30									

Pas deçu

NIR : R-109516-6

2017-8-29

Next Page...



DELIVERY - CLIENT

CO00046808

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

CLI0001056

Date

2017/08/22

Delivery date

2017/08/29

Your order N°

37486

Shipped to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Processed by

Frederic Leboeuf

Salesman

Carrier

OUELLETTE VALLEYFIELD

Credit Terme

Net 30 Days

Page

2

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	F-M	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
						CMD	EXP	B/O	IN	I	S C
5		HEXAGONE SS 1/2 SS303 RANDOM NS XSS-12303-V 8748 1 X 12' R/L AC8552 - TH - 2017/08/24	8.83	12.00	PI						
6		ROUND SS 5/8 303 RANDOM NS RSS-58303-V 8749 1 X 12' R/L AC8554 - MM - 2017/08/24	12.52	12.00	PI						
7		ROUND SS 1 303 RANDOM NS RSS-1303-V 8519 2 x 12' R/L AC8554 - MM - 2017/08/24	64.08	24.00	PI						
8		FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747 1 x 12' R/L AC8555 - CFF - 2017/08/24	76.50	12.00	PI						

NIR : R-109516-6

SP7-8-29.

Next Page...



DELIVERY - CLIENT

CO00046808

ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N  CLI0001056
Date 2017/08/22
Delivery date 2017/08/29 00:00
Your order N  37486
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Shipped to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Att : CHANTAL LAVOIE T l.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
NOTE : mill test needed on delivery									

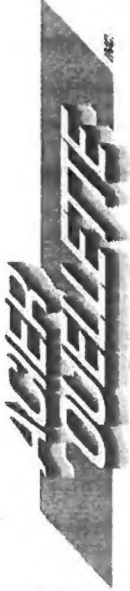
Total Weight (Lbs) : 419.26 NIR : R-109516-6

Conditions : All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :
Verified By :
Delivered By :
Time

Customer's Signature
Date

Total (\$CAD)



DELIVERY - USINE

CO00046808

ACIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/08/22

Delivery date 2017/08/29

Your order N° 37486

Processed by Frederic Leboeuf

Salesman

Carrier QUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 1

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	C
1 ALU SHEET .040 (18G) 2024-T3 5A (4 X 12) FEAL-0404122024A 3117 1 X 4' X 12' BARE AC8551 - 5A - 2017/08/24 HEAT : 433	27.02	48.00	PI2_\$CLB							
2 ALU SHEET .064 (18G) 2024-T3 (4 X 12) FEAL-0644122024 3166 3 X 4' X 12' BARE AC8551 - 5A - 2017/08/24 HEAT : 463	129.74	144.00	PI2_\$CLB							
3 ROUND ALU 9/16 6061-T6 (12) RAL-916-12 5178 17 X 12' AC8552 - TH - 2017/08/24 HEAT : 02151604	59.77	204.00	PI_\$CLB							

NIR : R-109516-6

Next Page...



DELIVERY - USINE

CO00046808

ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
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Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CL10001056

Date 2017/08/22

Delivery date 2017/08/29

Your order N° 37486

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction	F-M	Delivery Route	5	Page	2	Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
										CMD	EXP	B/O	IN	I	S	C
4		FLAT SS 1/4 X 4 17-4 PH HRAP SOL ANN RANDOM NS FSS-144174PH-V 8746 1 X 12' R/L AC8549 - JG - 2017/08/30	40.80	12.00	PI											
5		HEXAGONE SS 1/2 SS303 RANDOM NS XSS-12303-V 8748 1 X 12' R/L AC8552 - TH - 2017/08/24 HEAT: 45693	8.83	12.00	PI											
6		ROUND SS 5/8 303 RANDOM NS RSS-58303-V 8749 1 X 12' R/L AC8554 - MM - 2017/08/24 HEAT: 4021	12.52	12.00	PI											

8017-8-29

NIR : R-109516-6

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ACIER OUELLETTE INC.

935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

DELIVERY - USINE

CO00046808

Customer N° CLI0001056
Date 2017/08/22
Delivery date **2017/08/29**
Your order N° 37486
Processed by Frederic Leboeuf
Salesman
Carrier OUELLETTE VALLEYFIELD
Credit Terme Net 30 Days
Page 3

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C
7 ROUND SS 1 303 RANDOM NS RSS-1303-V 8519 2 x 12' R/L AC8554 - MM - 2017/08/24 HEAT: 232X	64.08	24.00	PI						
8 FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747 1 x 12' R/L AC8555 - CFF - 2017/08/24 HEAT: 56161807	76.50	12.00	PI						

NOTE : mill test needed on delivery

Total Weight (Lbs) : 419.26

NIR : R-109516-6

Conditions :

All sold and delivered materials remain the property of "Acier Ouellette Inc." until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to a 25% restocking charge.

Prepared By :	Verified By :	Delivered By :	Time
Customer's Signature			Date

Total (\$CAD)



DELIVERY - CLIENT

CO00046808

ACTIER OUELLETTE INC.

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N°

2017/08/22

Delivery date

37486

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Instruction F-M

Delivery Route 5

Page

1

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only			
				CMD	EXP	B/O	IN	I	S	OUT
1 ALU SHEET .040 (18G) 2024-T3 5A (4 X 12) FEAL-0404122024A 3117 1 X 4' X 12' BARE AC8551 - SA - 2017/08/24 HEAT : 433	27.02	48.00	PI2_\$CLB							
2 ALU SHEET .064 (14G) 2024-T3 (4 X 12) FEAL-0644122024 3166 3 X 4' X 12' BARE AC8551 - SA - 2017/08/24 HEAT : 463	129.74	144.00	PI2_\$CLB							
3 ROUND ALU 9/16 6061-T6 (12) RAL-916-12 5178 17 X 12' AC8552 - TH - 2017/08/24 HEAT : 02151604	59.77	204.00	PI_\$CLB							

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00046808

ACIER OUELLETTE INC.

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Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Customer N° CLI0001056

Date 2017/08/22

Delivery date **2017/08/29**

Your order N° 37486

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 2

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only				
				CMD	EXP	B/O	IN	I	S	C	OUT
4 FLAT SS 1/4 X 4 17-4 PH HRAP SOL ANN RANDOM NS FSS-144174PH-V 8746 1 X 12' R/L AC8549 - JG - 2017/08/30	40.80	12.00	PI								
5 HEXAGONE SS 1/2 SS303 RANDOM NS XSS-12303-V 8748 1 X 12' R/L AC8552 - TH - 2017/08/24 HEAT : 45693	8.83	12.00	PI								
6 ROUND SS 5/8 303 RANDOM NS RSS-58303-V 8749 1 X 12' R/L AC8554 - MM - 2017/08/24 HEAT : 402J	12.52	12.00	PI								

NIR : R-109516-6

Next Page...



DELIVERY - CLIENT

CO00046808

ACIER OUELLETTE INC.

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Salaberry de Valleyfield (Québec) J6S 5L1
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Customer N° CLI0001056

Date 2017/08/22

Delivery date 2017/08/29

Your order N° 37486

Processed by Frederic Leboeuf

Salesman

Carrier OUELLETTE VALLEYFIELD

Credit Terme Net 30 Days

Page 3

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Delivery Route 5

Instruction F-M

Product Description	Weight	Qty	U/M	PCS NB			Internal Use Only		
				CMD	EXP	B/O	IN	I	S C OUT
7 ROUND SS 1 303 RANDOM NS RSS-1303-V 8519 2 x 12' R/L AC8554 - MM - 2017/08/24 HEAT : 232X	64.08	24.00	PI						
8 FLAT SS 3/4 X 2 1/2 SS304 RANDOM NS FSS-34212-V 8747 1 x 12' R/L AC8555 - OFF - 2017/08/24 HEAT : 56161807	76.50	12.00	PI						

NOTE : mill test needed on delivery

Conditions :

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Total Weight (lbs) : 419.26

NIR : R-109516-6

Prepared By :

Verified By :

Delivered By : Time

Y	M	D

Customer's Signature

Date

Total (\$CAD)

3117

SHIP TO:

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

SOLD TO:

CERTIFIED TEST REPORTSerial Number
4465899

CUSTOMER PO NUMBER: C74254-4		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 103945/13	GOVT CONTRACT NUMBER:	
KAISER ORDER NO: 1236242-4		SHIP DATE: 7-JUN-2017	ALLOY: 2024 /	CLAD: BARE	TEMPER: T3 /	PRODUCT DESCRIPTION: HT Flat Sheet	
WEIGHT SHIPPED: 2950 LB	QUANTITY: 106 PCS EST.	TRUCK B/L #: 2067265	GAUGE: 0.0400 IN / (1.0160 MM)		DIAMETER/WIDTH: 48.000 IN / (1219.2 MM)		LENGTH: 144.000 IN / (3657.6 MM)

MHU 2116170: LOT/219547B7: 106 pieces; *D263517***Certified Specifications**✓ AMS 4037/RevQ
CMMP 019/RevD✓ AMS-QQ-A-250/4/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504
Lot: 219547B7**Cast 433**

Drop 09

Test Results
Ingot 1

Melted in USA

(ASTM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	68.3 : 69.0 (471 : 476)	46.8 : 47.2 (323 : 325)	17.5 : 19.1

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.21	4.6	0.57	1.3	0.01	0.11	0.02	0.01	0.01	TOT 0.04

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4465899

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- * All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- * is free of weld repair.
- * meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

3166

SHIP TO:

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

CERTIFIED TEST REPORT

SOLD TO:

Serial Number

4468996

CUSTOMER PO NUMBER: C74354-7	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103971/14	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1237228-7	SHIP DATE: 6-JUL-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet
WEIGHT SHIPPED: 3273 LB	QUANTITY: 74 PCS EST.	TRUCK B/L #: 2067707	GAUGE: 0.0630 IN (1.6002 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2123939: LOT[✓]219060B1: 52 pieces;MHU 2129722: LOT[✓]219256B5: 22 pieces;

D349127

D349128

Certified Specifications✓ AMS 4037/RevQ
CMMP 019/RevD✓ AMS-QQ-A-250/4/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 219060B1

Cast 463

Drop 55

Test Results

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	66.0 : 66.3 (455 : 457)	44.1 : 44.3 (304 : 305)	17.0 : 19.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.20	4.6	0.55	1.3	0.01	0.09	0.02	0.01	0.00	TOT 0.05
Lot: 219256B5	Cast 463	Drop 19	Ingot 1								Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.0 : 67.2 (462 : 463)	46.2 : 46.7 (319 : 322)	18.6 : 19.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.21	4.7	0.55	1.4	0.01	0.10	0.02	0.01	0.01	TOT 0.06

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468996

ALLOY LIMITS

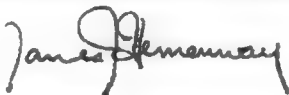
	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15
Aluminum Remainder												

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- * All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- * is free of weld repair.
- * meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

NO DTD

CU 46XU8

DARK

10-8552

Certificate of Mill Test Results

24Aug17
Pg 1/1

PO/Rel AC00008552

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____

BL PEC-060577-001



Service Center Metals

5850 Quality Way
Prince George, VA 23875

Can Do.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER 258902	ITEM 1
-----------------------------------	------------------

DATE TO SHIP TO	MANIFEST NUMBER Materials NA-Concord, ON	DIE NUMBER RD0370	DATE OF SHIPMENT 3/18/2016	CERTIFICATION ASTM-B221-14 No Stencil
	CUSTOMER PO PEC-273363	ALLOY / TEMPER 6061-T6511	SALES PERSON D. Schroeder (Canada)	SPECIFICATION AMS-QQA-200/8 - 1997
Quantity Certified	792 lbs 226 pcs	DESCRIPTION Lightning Rod Title 0.562 ± .004/- .003		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
2	201603729	3/10/16	48.20	48.70	45.60	46.10	14.00	16.83

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
02151604	201603728	6061	0.71	0.37	0.31	0.10	0.88	0.15	0.08	0.01	97.39	0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

Calvin J. Winnings

Calvin J. Winnings Director of Quality & Technical Services

Print Date: 3/18/2016

Certificate of Mill Test Results

BL VIM-S18973-001

de l'analyse faite par un service public
SIGNÉ PAR:

PO/Rel AC 00008552

Nous certifions que le document ci-dessus est une copie conforme du rapport fourni par le fournisseur du matériel ou les données résultant

CO 46808

DART

8148#



INSPECTION CERTIFICATE

TA CHEN STAINLESS PIPE CO., LTD.

Stainless Steel Cold Draw Hexagonal Bar (#)

AL510300653

22.19 °C - 10486003/L53620

TA CHEN 303

WALSH LIENWA CORP.

WALSH LIENWA CORP.
5th Floor, No. 100, Sec. 2, Zhongxing Rd.,
Taipei 100, Taiwan, R.O.C.
TEL: 886-2-2711-1111 FAX: 886-2-2711-1111

2015/10/22

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

Customer: COPCON PO#:VIM-639106 SO#:LRGJ37
Item:HB030032 Bundle:WL15104030 Heat#:4S693
Item:HB030032 Bundle:WL15104031 Heat#:4S693

This MTR contains 1 page (Page# 1)

MTR#:WLRBA1510300633

Chemical Composition (%)														Mechanical Properties				BUNDLE
C	Si	Mn	P	S	Cr	Ni	Cu	Al	Fe	TS	YS	EL	HAZ	TS	YS	EL	HAZ	HB
0.05	0.03	0.03	0.01	0.01	19.0	10.0	0.01	0.01	100.0	745	518	23	23	745	518	23	23	15106014
0.05	0.03	0.03	0.01	0.01	19.0	10.0	0.01	0.01	100.0	745	518	23	23	745	518	23	23	15104030
0.05	0.03	0.03	0.01	0.01	19.0	10.0	0.01	0.01	100.0	745	518	23	23	745	518	23	23	15104031
0.05	0.03	0.03	0.01	0.01	19.0	10.0	0.01	0.01	100.0	745	518	23	23	745	518	23	23	15107020

TOLERANCE A484

Acc. to ASTM A382-12 Cond. A.

Acc. to ASTM A56400 Type 1/20-S-764.

This inspection certificate is issued acc. to EN 10204 2.2.

Remark:

Solution annealed treatment: Acc. to ASTM A484-13a.
Melted manufactured: Taiwan, Improved machining.

- We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with requirement of the above material specification.
- We certify that the material is free from mercury and radiation contamination. Qualification No. of Taiwan Atomic Energy Committee: 136
- The Above Testing Results Relate Only To The Items Tested.
- No welding repaired

SUPPLY CONDITION:

- A: Annealed
- B: Shot Blasted
- C: As Casted
- E: Reheated Skin Pass
- H: Precipitation Hardening
- HR: Hot Rolled
- I: Straightened
- K: Cut Edge
- L: Polished
- M: Cold Rolled
- P: Pickled
- S: Shaved
- V: Sh
- W: Cut
- X: Temper
- CG: Cold Draw
- CG: Centerless Ground
- PL: Turned or Peised

- We have the following certifications
- 1. ISO 9001:2008 Quality Management System
- 2. ISO 14001:2004 Environmental Management System
- 3. PED & AD2000-Meritblat W0
- 4. DNV - LR - ABS Classification Society certification
- 5. ASME Quality Management System
- 6. ISO 14001:2004 Environmental Management System
- 7. OHSAS 18001:2007 & TOSHMS Certificate

TEST METHOD:
CHEMICAL-ASTM E1806, E415, E1005, E1019

SLKun.

Quality Assurance Responsible Personnel



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

CO 46808

DAKI

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 304908 2 Mail To:

Customer: 007080 003

Ship To:

Date: 6/20/2017 Page: 1

Steel: 303

Finish: CD

Corrosion:

108554

Your Order: MN5770

NAS Order: IN 0248740 01

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
AMS 5640V TYPE 1, QOS-764B CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12b

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
B17223 1		.6250		659	144.00	1	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	FE %	MO %	MN %	NI %	P %
402J	US	.030	.19	17.15	.32	1.83	.28	.039	8.55	.030
	S %	SI %								
		.3320	.57							

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB	.2YS KSI	UTS KSI	RA %	Ring % 4D
B17223 1	R L	193.0	78.98	110.00	30.99	21.56

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

Technical
Name

Item-GRP 625 303 303 Heat #402J



DATA

METALLURGICAL TEST REPORT

10-8504

**6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000**

Ship To:

Date: 3/22/2017 **Page:** 1

Steel: 303

Q:

Corrosion:

Red Ratio: 69.4 : 1

!epuo nox

was order: IN 0244860 03

PRODUCT DESCRIPTION:

Round Bar, annealed, Cold Draw
UNS 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15
AMS 5640V TYPE 1, Q98-764B CONDITION A
SOLUTION ANNEAL T800 MIN

REMARKS:

COMPLIES WITH REQUIREMENTS OF DPAK 252.225-7009 ET DIRECTIVE 2011/65/EU, ROHS, EAF+AD+CC, NO WELD REPAIR, MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

7207

Product Id	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI4098 0		1.0000		829	144.00	3	1	

CHEMICAL ANALYSIS

CM(Country of Melt)	ES(Spain)	US(United States)	ZA(South Africa)	JP(Japan)
				Chemical Analysis per ASTM A751/14A

SEE SOURCEBOOK SUPPLY, 180/JEC 17025, Certificate# L2332

[illegible]

MECHANICAL PROPERTIES

Product Id	1 d C I	RD No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BI4098 C	R L	156.0	43.00	84.00	58.00	48.00

ANAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

Item-GRP	1	000	ST	303	H=+ #=333v
1	1	000	ST	303	H=+ #=333v

20 46808 Kamaske 24 DART AC 8555

BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458		Abnahmeprüfzeugnis/Müll Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: / Nr.: 0000124585										
		Unsere Innere Verweisung / Our Int. Ref/ N/ ref int 5600033444 000070		Datum / Date / Data 24.01.2017										
Normen / Standards / Normas TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A479/A479M-16a, A276/A276M-16a, SAE-AMS-QQ-S 763D, AMS5639H, AMS5647J, ASME SA479/SA479M, ASME SA276, ASTM A182/A182M-16a F304/304L, A193/A193M-16 CL.1Gr.B8, ASTM A314-15, ASTM A320/A320M-15a, DOD-F2466B/6, ASME SA182/SA182M, ASME SA 193/SA193M, ASME SA320 CL.1Gr.B8, ASTM A262-15 Practice E, grain size as per ASTM E112, NACE MR 0175 Mercury free statement, not weld repair statement, contents of N, Co, Mo and Cu. ASTM A484/A484M-16														
Kunde / Customer / Cliente			Endgültiger Kunde / Final Customer / Cliente Final											
Bestell Nr./Order Nr./ Enc.Nr. C107037			Bestell Nr./ Order Nr./ Enc.Nr. C107037.4											
Produktgruppe / Product Group / Grupo Produto AISI 304/L FLAT 3/4 X 2-1/2"		Gewicht / Weight / Peso 4.128 lb		Bunde / Bundle / Atados 02										
Werkstoff-Nr. / Material no. / Qualidade 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9												
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed, straightened, pickled. US, DFAR 252.225-7009: MELT SOURCE: United Kingdom / MFG. Portugal.														
Chemische Analyse in % / Chemical composition in % / Análise química em %														
Schmelzen Nr. / Cast no. / Posição nr. 56161807	C	0.018	Si	0.300	Mn	1.710	P	0.032	S	0.028	Cr	18.110	Ni	8.040
EEF-AQD	Mo	0.320	Co	0.153	Cu	0.540	N	0.080	Ti	0.006	Nb	0.018	Al	0.006
Proben Nr. / Test no. / Amostra no.	ASTM E398			ASTM A370										
	Kerbschlagarbeit / Impact Test / Resiliência			Streckgrenze / Yield point / Tensão limite	Dehngrenze 1% point / Limite de extensão	Zugfestigkeit / Tensile strength / Tensão de rotura		Dehnung / Elongation / Alongamento		Einschnürung / Reduction of area / Coef. Estricção				
	{Charpy V}			Rp 0.2 %	Rp 1.0%	Rm		A5 4D		Z				
	[J]			[Ksi]	[Ksi]	[Ksi]		[%] [%]		[%]				
3059261.01:01	199.0			56.9	83.1	97.3		56.2 58.1		84.5				
Visuelle Kontrolle / Visual inspection / Inspeção visual <input checked="" type="checkbox"/> OK		ASTM E10 Härte / Hardness / Dureza 200 [HB]		ASTM A262 Practice E Korrosionsbeständigkeit / IC Test <input checked="" type="checkbox"/> OK Corrosão Intermetálica		Wärmebehandlung / Heat treatment / Tratamento térmico Annealed Quenched 1900 °F (1060 °C) (water quenched)								
ASTM A484 Maßkontrolle / Dimensional inspection / Inspeção dimensional <input checked="" type="checkbox"/> OK		ASTM E112 Korngröße / Grain size / Tamanho de grão 9		Werkstoffverständiger / Quality Control Representative / Inspector da Qualidade Nuno Silva (Q-NS)										
Verwechslungsprüfung / Test of identity / Teste de identificação <input checked="" type="checkbox"/> OK		Makroskopische Untersuchung / Macrographic test <input checked="" type="checkbox"/> OK Material free from segregation defects.												
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.				Bollinghaus Steel, SA Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.										

197390

3117

SHIP TO:						KAISER ALUMINUM Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586 CERTIFIED TEST REPORT Serial Number 4465899					
SOLD TO:											
CUSTOMER PO NUMBER: C74254-4		WORK PACKAGE:		CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 103945/13		GOV'T CONTRACT NUMBER:			
KAISER ORDER NO: 1236242-4		SHIP DATE: 7-JUN-2017		ALLOY: 2024		CLAD: BARE		TEMPER: T3		PRODUCT DESCRIPTION: HT Flat Sheet	
WEIGHT SHIPPED: 2950 LB		QUANTITY: 106 PCS EST.		TRUCK B/L #: 2067265		GAUGE: 0.0400 IN (1.0160 MM)		DIAMETER/WIDTH: 48.000 IN (1219.2 MM)		LENGTH: 144.000 IN (3657.6 MM)	

MHU 2116170: LOT/219547B7: 106 pieces: **D263517****Certified Specifications**
✓ AMS 4037/RevQ
CMMP 019/RevD

✓ AMS-QQ-A-250/4/RevB
✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504
Lot: 219547B7
Cast 433
5
9-89

Drop 09

Test Results
Ingot 1

Melted in USA

(ASM E8/B557)
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	68.3 : 69.0 (471 : 476)	46.8 : 47.2 (323 : 325)	17.5 : 19.1

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.21	4.6	0.57	1.3	0.01	0.11	0.02	0.01	0.01	TOT 0.04

ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4465899

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- * All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- * has been thermally processed in compliance with AMS 2772, where applicable.
- * is mercury free, within the limits of detection of ASTM E1215 (< 1ppm).
- * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- * is free of weld repair.
- * meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

3166

SHIP TO:

**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215

Phone: (800) 367-2586

SOLD TO:

CERTIFIED TEST REPORT

Serial Number

4468996

CUSTOMER PO NUMBER: C74354-7	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD: 103971/14		GOVT CONTRACT NUMBER:
KAISER ORDER NO: 1237228-7	SHIP DATE: 6-JUL-2017	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet
WEIGHT SHIPPED: 3273 LB	QUANTITY: 74 PCS EST.	TRUCK B/L #: 2067707	GAUGE: 0.0630 IN (1.6002 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)	LENGTH: 144.000 IN (3657.6 MM)

MHU 2123939: LOT 219060B1: 52 pieces;

MHU 2129722: LOT 219256B5: 22 pieces;

Certified Specifications

✓ AMS 4037/RevQ

CMMP 019/RevD

✓ AMS-QQ-A-250/A/RevB

✓ CMMP 025/RevV

✓ ASTM B 209/Rev14

Test Code: 1504

Lot: 219060B1

Cast 463

DAS

5

Drop 55

Test Results

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	66.0 : 66.3 (455 : 457)	44.1 : 44.3 (304 : 305)	17.0 : 19.7

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.20	4.6	0.55	1.3	0.01	0.09	0.02	0.01	0.00	TOT 0.05
Lot: 219256B5	Cast 463		Drop 19		Ingot 1						Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.0 : 67.2 (462 : 463)	46.2 : 46.7 (319 : 322)	18.6 : 19.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.21	4.7	0.55	1.4	0.01	0.10	0.02	0.01	0.01	TOT 0.06

NS 5178

CO 46808

DART

10-8552

Certificate of Mill Test Results

PO/Rel AC00008552
We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

24 Aug 17
Pg 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



Service Center Metals
5850 Quality Way
Prince George, VA 23875

Can Do.

OUR ORDER NUMBER **258902** ITEM **1**

DATE OF SHIPMENT **3/18/2016**

SALES PERSON **D. Schroeder (Canada)**

DESCRIPTION **Lightning Rod Tite 0.562 +.004/.003**

MANUFACTURE NUMBER **288918**

CUSTOMER NO **PEC-273363**

CUSTOMER PART NUMBER **RD0370**

Materials **NA-Concord, ON**

Materials **NA-Concord, ON**

Quantity Certified **792 lbs 226 pcs**

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6.

Mechanical Properties			Tensile		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.		min	max	min	max	min	max
2	201603729	3/10/16	48.20	48.70	45.60	46.10	14.00	16.83

DAS
1A
9.00
17/08/30

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others		Melt Source:
												Each	Total	
02151604	201603729	6061	0.71	0.37	0.31	0.10	0.88	0.15	0.08	0.01	97.39	0.05	0.15	United States of America

SCM extrusions are manufactured in the USA.

Calvin J. Wiggins

Calvin J. Wiggins, Director of Quality & Technical Services

Print Date: 3/18/2016

Certificate of Mill Test Results

BL VIM-518973-001

de l'analyse faite par un technicien qualifié
SIGNÉ PAR:

PO/Ref AC'00008552

Nous certifions que le document ci-dessus est
une copie conforme du rapport d'analyse par le
fournisseur du matériau et des échantillons

MILL TEST REPORT

TA CHEN INTERNATIONAL, INC.

Customer: COPCON PO#:VIM-639106 SO#:LRGJ37

Item:MB030032 Bundle:WL15104030 Heat#:45693

Item:MB030032 Bundle:WL15104031 Heat#:45693

This MTR contains 1 page (Page# 1)

MTR#:WLRBA1510300653

INSPECTION CERTIFICATE

WLSN

TA CHEN INTERNATIONAL, INC.
Stainless Steel Cold Draw Hexagonal Bar (H)

ASTM A582-12

Chemical Composition (wt%)										Mechanical Properties		BATCH NO
C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	TS	YS	
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB
0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	745	518	MB3-1 PB

DAS
14 17/08/30
9-89

LENGTH TOLERANCE: 0-50

Acc. to ASTM A582-12 Cond A.
Acc. to ASTM A582 type 1/2-3-164

This inspection certificate is issued acc. to EN 10204 2.2

Remark:

Solution annealed treatment: Acc. to ASTM A484-13a.
Melted manufactured: Taiwan Improved machining.

- We hereby certify that material described herein has been manufactured and tested with satisfactory results in accordance with requirement of the above material specification.
- We certify that the material is free from mercury and radiation contamination. Qualification No. of Taiwan Atomic Energy Committee: 136
- The Above Testing Results Relate Only To The Items Tested.
- No welding repaired

SUPPLY CONDITION:

- A: Annealed
- B: Shot Blasted
- C: As Cast
- D: Heat Treated
- E: Pickled
- F: Polished
- G: Cold Drawn
- H: Cold Drawn and Pickled
- I: Cold Drawn and Polished
- J: Cold Drawn and Shot Blasted
- K: Cold Drawn and Annealed
- L: Cold Drawn and Annealed and Shot Blasted
- M: Cold Drawn and Annealed and Polished
- N: Cold Drawn and Annealed and Shot Blasted and Polished
- O: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled
- P: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished
- Q: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished
- R: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished
- S: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished
- T: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished
- U: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished
- V: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished and Polished
- W: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished
- X: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished
- Y: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished
- Z: Cold Drawn and Annealed and Shot Blasted and Polished and Pickled and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished and Polished

- We have the following certifications
- ISO 9001:2008 Quality Management System
 - ISO 14001:2004 Environmental Management System
 - ISO 18001:2007 Occupational Health and Safety Management System
 - DNV - LR - ABS Classification Society certification
 - ASME Quality Management System
 - ISO 14001:2004 Environmental Management System
 - ONAS 18001:2007 & TOSHMS Certificate

TEST METHOD:

CHEMICAL: ASTM E1306, E1015, E1086, E1019

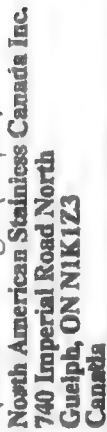
SL Kaan

Quality Assurance Responsible Personnel

DRAFT

8478#

Heat 45693



CO 46808 DART
METALLURGICAL TEST REPORT

**6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000**

Hot Deals

Date: 6/20/2017 Page: 1

Stool: 303

© 1997

Correction

Your Order: **MX5770**

WAS Order: IX 0248740 01

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw

1008 30300, ASTM A582/12 EN 10204 3.1, ASTM A484/15

AM3 5640V TYPE 1, 008-764B CONDITION A

SOLUTIONS AVAILABLE FROM 1900F MOD, ASTM 7899/125

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 TO DIRECTIVE 2011/65/EU,ROHS. EAF+AOD+CC. NO WILD REPLYR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

9-89
14
DAS

17/08/30

Product Id	Std #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BT7223 1		.6250		659	144.00	1	1	

CHEMICAL ANALYSIS

CM(Country of Mfg)	ES(Spain)	US(United States)	ZA(South Africa)	JP(Japan)
Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323				
Chemical Analysis per ASTM A751/14a				

PMAS Heat	CM	C %	CO %	CR %	CU %	ME %	MO %	W %	WI %	P %
402J	US	.030	.19	17.15	.32	1.53	.28	.039	8.55	.030
	S %		81 %							
		.3320	.57							

MECHANICAL PROPERTIES

Product Id	14 C I	EN No.	-2YS KST	DTB FST	RA %	Elng % 4D
BI7223 1	2 L	193.0	78.98	110.00	30.99	21.56

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

Item-SBR	CD	Heat #	Heat #
625	303	-402	1

7558-00

North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

**6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000**

Certificate: 276092 **Mail To:**

Ship To:

Date: 3/22/2017 **Page:** 1

Customer: 007080 003

Steel: 103

Plasmid: CD

Your Order: T195RM

WAS ORDER: IN 0244860 03

Red Ratio: 69.4 : 1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30300, ASTM A582/12, EN 10204 3.1, ASTM A484/15
JMS 30300, ASTM 5640V TYPE 1, Q361638 CONDITION A
SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DPA 252.225-7009 EU DIRECTIVE 2011/65/EU, ROHS. SLP+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY COMPOSITION.

68-5
4
242

17/08/29

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BI4098 0		1.0000		829	144.00	3	1	

CHEMICAL ANALYSIS

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L23223
South Africa) JP(Japan) Chemical Analysis per ASTM A751/A751M

WAS Heat	CM	C %	CO %	CR %	CU %	MS %	MO %	N %	NI %	P %
232X	US	.0397	.0875	17.0705	.2690	1.8330	.2685	.0422	8.5350	.0750
		S %	SI %							
			.3255	.5080						

MECHANICAL PROPERTIES

Product Id	Id o i c	RA No.	.2Y8 RST	DT8 RST	RA %	Elng % 4D
BI4098 C	R L	156.0	43.00	94.00	58.00	48.00

WAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items

Technical Post-Work

Item-SBR	1.000	ST	303	Heat #-232X
----------	-------	----	-----	-------------

Heat #-232X

CU 46808 Ramaste 24 DART

AC 8555

BOLLINGHAUS STEEL Bollinghaus Steel, SA DIN EN ISO 9001:2008 TÜV CERT No. 01 100 030458		Abnahmeprüfzeugnis/Mill Test Certificate/Certif. de Qualidade EN 10204:2004 / 3.1		No.: / Nr.: / Nr.: 0000124585											
Unsere innere Verweisung / Our Int. Ref / ref int 5600033444 000070		Datum / Date / Data 24.01.2017													
Normen / Standards / Normas TYPE 304/UNS S30400 and TYPE 304L/UNS S30403 acc. to ASTM A479/A479M-16a, A276/A276M-16a, SAE-AMS-QQ-S 763D, AMS5639H, AMS5647J, ASME SA479/SA479M, ASME SA276, ASTM A182/A182M-16a F304/304L, A193/A193M-16 CL 1Gr B8, ASTM A314-15, ASTM A320/A320M-15a, DOD-F24668/8, ASME SA182/SA182M, ASME SA 193/SA193M, ASME SA320 CL 1Gr B8, ASTM A262-15 Practice E, grain size as per ASTM E112, NACE MR 0175 Mercury free statement, not weld repair statement, contents of N, Co, Mo and Cl, ASTM A494/A494M-16															
Kunde / Customer / Cliente			Endgültiger Kunde / Final Customer / Cliente Final DAS 14 9-89 17/08/30												
Bestell Nr./Order Nr./Enc.Nr. C107037			Bestell Nr./Order Nr./Enc.Nr. C107037.4												
Produktgruppe / Product Group / Grupo Produto AISI 304/L FLAT 3/4 X 2-1/2"		Gewicht / Weight / Peso 4.128 lb		Bunde / Bundle / Atados 02											
Werkstoff-Nr. Material no. Qualidade 1.4307		Werkstoff-Normbezeichnung / Material standard grade / Norma do material X 2 CrNi 18-9													
Beschreibung / Description / Descrição Stainless steel flat bars, hot rolled, solution annealed, straightened, pickled. US OFAR 252.225-7009: MELT SOURCE: United Kingdom / MFG. Portugal.															
Schmelzen Nr. Cast nr. / Forno nr. 58161807		Chemische Analyse in % / Chemical composition in % / Análise química em %													
EAF-AOD		C	0.018	Si	0.300	Mn	1.710	P	0.032	S	0.028	Cr	18.110	Ni	8.040
		Mo	0.320	Co	0.153	Cu	0.540	N	0.080	Ti	0.036	Nb	0.018	Al	0.006
Proben Nr. Test no. Amostra no.		ASTM E390 Kerbschlagarbeit Impact Test Resistência (Charpy V)			ASTM A370 Streckgrenze Yield point Tensão limite Rp 0.2 %		Dehngrenze 1% point Limite de extensão Rp 1.0%		Zugfestigkeit Tensile strength Tensão de rotura Rm		Dehnung Elongation Alongamento A5 4D		Einschnürung Reduction of area Coef. Estricção Z		
		[J]			[Ksi]		[Ksi]		[Ksi]		[%]		[%]		
		199.0			56.9		83.1		97.3		56.2		58.1		
Visuelle Kontrolle Visual inspection Inspeção visual		<input checked="" type="checkbox"/> OK		ASTM E10 Härte Hardness Durezza 200 [HB]		ASTM A262 Practice E Korrosionsbeständigkeit IC Test Corrosão Interferência		<input checked="" type="checkbox"/> OK		Wärmebehandlung Heat treatment Tratamento térmico Annealed Quenched 1880 °F (1080 °C) (water quenched)					
ASTM A484 Maßkontrolle Dimensional inspection Inspeção dimensional		<input checked="" type="checkbox"/> OK		ASTM E112 Korngröße Grain size Tamanho de grão 9		Werkstoffverständiger Quality Control Representative Inspector da Qualidade Nuno Silva (N-NS)									
Verwechslungsprüfung Test of identity Teste de identificação		<input checked="" type="checkbox"/> OK		Makroskopische Untersuchung Macrographic test Material free from segregation defects.		<input checked="" type="checkbox"/> OK									
Bemerkungen / Remarks / Observações Country of origin: Portugal. No weld repair done. Material is free of mercury and radiation contamination.						Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht. We confirm that this material meets the specification according to the mentioned standards. Confirmamos que este material respeita as especificações de acordo com as normas referidas.									

8747

197390

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 12024735.040
 DATE: AUG 31 2017

PO / BATCH NO.: PO37486/4138389

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 485 sq ft
 QUANTITY INSPECTED: 485 sq ft
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .040
 THICKNESS RECEIVED: .040
 SHEET SIZE ORDERED: 4x12
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y	N	AmS QQ A 250
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	147 # 433
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
 RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u> DATE: <u>AUG 31 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET
SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037
OR ASTM B209

PART NUMBER: M2024T3S | XXX THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M2024T3S.063

PREFERRED SIZE: .XXX BY 4FT BY 10FT

DAS
5
9-89

RELEASED
R 2009-03-23

B	REFORMAT DWG. ADD ASTM B209 SPEC (ZN D8-1), PAR 09-020A	CP	08.07.07
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
DE APPR.			
DATE	09.07.07		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV B	
DRAWING NO M2024T3S		SHEET 1 OF 1	
TITLE 2024-T3 SHEET SPEC		SCALE NTS	
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA THIS DOCUMENT IS PRIVATE AND OF CONFIDENTIAL NATURE. IT IS NOT TO BE RELEASED OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M2024135.063
 DATE: AUG 31 2017

PO / BATCH NO.: 0037486/M138389

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 144 SGR
 QUANTITY INSPECTED: 144 SGR
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063
 THICKNESS RECEIVED: .063
 SHEET SIZE ORDERED: 4x12
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AmS QQ-A 350
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	47 # 463
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>5</u> <u>9-89</u> DATE: <u>AUG 31 2017</u>	SIGNED OFF BY: _____ DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 2024-T3 ALUMINUM SHEET
SPECIFICATION: QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037
OR ASTM B209
PART NUMBER: M2024T3S | .XXX | THK
WHERE ".XXX" = SHEET THICKNESS (IN INCHES)
EG. 0.063" THICK SHEET = M2024T3S.063
PREFERRED SIZE: .XXX BY 4FT BY 10FT

DATE
5
9-86

RELEASED
R 2009-03-03
MP

B	REFORMAT DWG, ADD ASTM B209 SPEC (Z1 DB-1), PAR 09-020A	CP	09.07.07
A	NEW ISSUE	DS	01.09.24
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.07.07		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M2024T3S		SHEET 1 OF 1	
TITLE 2024-T3 SHEET SPEC		SCALE NTS	
COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRINTED AND COMPILED AND IS SUPPLIED ON THE EXPRESS UNDERSTANDING THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMBINATION OF PURPOSES WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303 R1.00
 DATE 17/08/29

PO / BATCH NO 37486/138389

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 24.700
 QUANTITY INSPECTED 24.700
 QUANTITY REJECTED _____

THICKNESS ORDERED 1.00
 THICKNESS RECEIVED 1.00
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	HEAT # 232X
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M303 R1.00
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M138389
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRF	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u> DATE: <u>17/08/29</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582

PART NUMBER: M303R0.000
DIA.

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

41303

RELEASED
2010-02-02
ND

B	REFORMAT DWG. / ADD SPECS (ZN D8-1), REF PAR 08-020A	CP	10 01 05
A	NEW ISSUE	DS	01 12 20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M303R			
REV. B SHEET 1 OF 1			
TITLE 303 ROUND BAR			
SCALE NTS			
DATE 10.01.05			
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL M1606176 RD. 563
 DATE 17/08/30

PC BATCH NO 37486/138389

MATERIAL CERT REQ'D YES
 QUANTITY RECEIVED 204'
 QUANTITY INSPECTED 204'
 QUANTITY REJECTED _____

THICKNESS ORDERED .563
 THICKNESS RECEIVED .564
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	ASTM A221
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LAK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	HEAT# 02151604
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	M138389
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>14</u> <u>082</u> DATE: <u>17/08/30</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR
SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER: M6061T6R(D.DDD) DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = M6061T6R0.625

R.SZ3

RELEASED
R 2009-09-09
MD

B	REFORMAT DWG. ADD B211& B221 SPEC (ZN D8-1), REF PAK 08-0204	CP	09 07 13
A	NEW ISSUE	DS	01 06 08
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR			
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO M6061T6R			
SHEET 1 OF 1			
REV. B			
TITLE 6061-T6 ROUND BAR			
SCALE NTS			
DATE 09.07.13			
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS ISSUED IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 4304 B0.750X2.500
 DATE 17/08/30

PC BATCH NO 37486 / 138389

MATERIAL CERT RECD yes
 QUANTITY RECEIVED 13.33
 QUANTITY INSPECTED 13.33
 QUANTITY REJECTED _____

THICKNESS ORDERED .750
 THICKNESS RECEIVED .750
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM A276
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HEAT# 56161807
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	17138389
DOES THIS MATERIAL REQUIRE ENGINEERING SIGNOFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>18</u> DATE: <u>17/08/30</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
(NOTE: AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION: ASTM A276 OR ASTM A240

PART NUMBER: M304B | T.TTT | X | W.W.W.W.W |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
AND "W.W.W.W.W" = WIDTH IN INCHES

△ EG. 0.5" X 3.0" BAR = M304B0.500X03.000
EG. 0.5" X 12.0" PLATE = M304B0.500X12.000

M304 B.750X2.500

RELEASED
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL, ADDED PLATE RELATED SPECIFICATIONS, AND EG.: CHANGED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10 11 25
B	REFORMAT DWG. ADD SPECS (ZN D6-1).	CP	08.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN	PA		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M304B
TITLE	304/316 BAR/PLATE
SCALE	NTS
SHEET 1 OF 1	REV. C

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WRITTEN PERMISSION FROM DART AEROSPACE LTD

MATERIAL RECEIPT INSPECTION FORM

MATERIAL M303 RD. 625
DATE 17/08/30

PO BATCH NO 37486/138389

MATERIAL CERTIFIED yes
QUANTITY RECEIVED 12
QUANTITY INSPECTED 12
QUANTITY REJECTED _____

THICKNESS ORDERED .625
THICKNESS RECEIVED .625
SHEET SIZE ORDERED _____
SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> N	ASTM A582
CORRECT THICKNESS	<input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> N	HEAT # 402J
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> N	M303 RD. 625
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> N	M138389
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>14</u>	SIGNED OFF BY: _____		
DATE: <u>17/08/30</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582

PART NUMBER: M303R.DDD
DIA. 1

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

M303 R.625

M138389

RELEASED
R 2010-02-02
JND

B		REFORMAT DWG. ADD SPECS (ZIN D8-1)		CP	10 01 05
A		NEW ISSUE		DS	01 12 20
REV		DESCRIPTION		BY	DATE
DESIGN					
DRAWN					
CHECKED					
MFG. APPR.					
APPROVED					
DE APPR					
DATE	10.01.05				
		DART AEROSPACE LTD HAMKESBURY, ONTARIO, CANADA		REV. B	
		DRAWING NO. M303R		SHEET 1 OF 1	
		TITLE 303 ROUND BAR		SCALE NTS	
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303 H.O. 500
 DATE: 17/08/30

PO / BATCH NO.: 37486/138389

MATERIAL CERT REC'D yes
 QUANTITY RECEIVED 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: _____

THICKNESS ORDERED .500
 THICKNESS RECEIVED .500
 SHEET SIZE ORDERED: _____
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORROSION	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	ASTM A582
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input type="radio"/> N <input checked="" type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	HEAT# 45693
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	M303 H.O. 500
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N <input type="radio"/>	M138389
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>14</u> <u>9-80</u>	SIGNED OFF BY: _____		
DATE: <u>17/08/30</u>	DATE: _____		

Attach this Inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

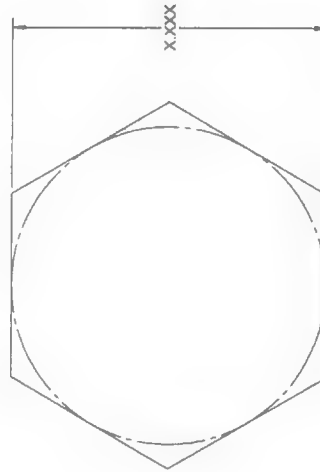
PURCHASE MATERIAL: AISI 303 SS HEX BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582

PART NUMBER: M303H X.XXX
HEX
DIA.

WHERE "X.XXX" = INSCRIBED DIAMETER OF HEX BAR IN INCHES
EG. 0.5" HEX BAR = M303H0.500

M303H0.500
M138389



RELEASED
2010-02-02
M138389

B	REFORMAT DWG. ADD SPECS (2N D8-1), REF PAR 08-020A	CP	10 01 05
A	NEW ISSUE	DS	02 04 30
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWING NO.	M303H
TITLE	303 HEX BAR
SCALE	NTS
SHEET 1 OF 1	

REV. B
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KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4468996


ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024												
MIN(wt%)	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15
Aluminum Remainder												

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- * has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
 - * All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
 - * was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
 - * has been thermally processed in compliance with AMS 2772, where applicable.
 - * is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
 - * is in compliance with RoHS 2, European Union Directive 2011/65/EU.
 - * is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
 - * is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
 - * is free of weld repair.
 - * meets the reporting requirements of EN10204, Type 3.1.
- Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.



JAMES HEMENWAY, TECHNICAL PROCESS MANAGER



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 1 of 9

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
AUG 21 2017

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

Chantal Lavoie

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M174B0.250X4.000	17-4 BAR 0.250" X 4.000"	8/31/2017 Yes 8/31/2017		12.00 f	\$30.42	\$365.00
MATERIAL: 17-4 PH SS BAR AS PER AMS 5604 / 5643 GRAIN DIRECTION MUST BE ALONG LENGTH MINIMUM YIELD TENSILE STRENGTH = 100KSI MINIMUM ULTIMATE TENSILE = 150 KSI							
Line Total:							\$365.00
2	M2024T3S.040	2024-T3 .040 sheet	8/25/2017 Yes 8/25/2017		48.00 sf	\$4.23	\$202.94
MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209							
Line Total:							\$202.94

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 2 of 9

Order From :
ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

3	M2024T3S.063	2024-T3 .063 sheet	8/25/2017 Yes 8/25/2017	144.00 sf	\$6.77	\$974.31
---	--------------	--------------------	-------------------------------	--------------	--------	----------

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

3x SP17-8-29.

Line Total: \$974.31

4	M303H0.500	303 HEX BAR .500	8/25/2017 Yes 8/25/2017	12.00 f	\$4.25	\$51.00
---	------------	------------------	-------------------------------	------------	--------	---------

MATERIAL: AISI 303 SS HEX BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

SP17-8-29

Line Total: \$51.00

5	M303R0.500	303 Round Bar 0.500"	8/25/2017 Yes 8/25/2017	24.00 f	\$2.27	\$54.42
---	------------	----------------------	-------------------------------	------------	--------	---------

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582
NOTE: AISI 304/316 NOT ACCEPTABLE

SP17-8-23

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 3 of 9

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

					Line Total:	\$54.42
6	M303R0.625	303 Round Bar 0.625"	8/25/2017 Yes 8/25/2017	12.00 f	\$3.50	\$42.00

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

					Line Total:	\$42.00
7	M303R1.000	303 Round Bar 1.00	8/25/2017 Yes 8/25/2017	24.00 f	\$8.25	\$198.00

MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582

NOTE: AISI 304/316 NOT ACCEPTABLE

887-8-297

Line Total: **\$198.00**

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 4 of 9

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

8	M304B0.750X2.500	304 BAR .750 X 2.50	8/25/2017 Yes 8/25/2017	12.00 f	\$23.33	\$280.00
---	------------------	---------------------	-------------------------------	------------	---------	----------

MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS
AS PER ASTM A276 OR ASTM A240

NOTE: AISI 303 NOT ACCEPTABLE

SP17-8-29.

Line Total: \$280.00

9	M304R1.000	304 round bar 1.00	8/25/2017 Yes 8/25/2017	12.00 f	\$7.90	\$94.82
---	------------	--------------------	-------------------------------	------------	--------	---------

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

SP17-8-23

Line Total: \$94.82

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 5 of 9

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

10 M304S11GA

304/316 0.125 Sheet

8/25/2017

Yes

8/25/2017

32.00

sf

\$12.23

\$391.36

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total:

\$391.36

11 M304S18GA

304/316 .050 Sheet

8/25/2017

Yes

8/25/2017

64.00

sf

\$5.36

\$342.72

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total:

\$342.72

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 6 of 9

Order From : VC-CAM002
ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 800 667 4248

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

12	M304S16GA	304/316 Sheet .063	8/25/2017 Yes 8/25/2017	64.00 sf 2x.	\$6.51	\$416.56
----	-----------	--------------------	-------------------------------	--------------------	--------	----------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$416.56

13	M304S24GA	304/316 .025 Sheet	8/25/2017 Yes 8/25/2017	32.00 sf 1x.	\$2.90	\$92.72
----	-----------	--------------------	-------------------------------	--------------------	--------	---------

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED
SPECIFICATION: MIL-S-5059
OR AMS 5513 (304)
OR AMS 5524 (316)
ORASTMA240
OR ASME SA240

Line Total: \$92.72

PO Instructions: quotation, sou0052051

Note:

8/21/2017

8877-8-23.



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 7 of 9

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

14	M6061T6R0.563	✓	6061-T6 ROUND BAR .563	✓	8/25/2017	204.00	✓	\$1.01	\$206.78
					Yes		f		
					8/25/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

SPR-8-29

Line Total: \$206.78

15	M6061T6R0.750	✓	6061-T6 Round Bar .750"	✓	8/25/2017	20.00	✓	\$1.34	\$26.77
					Yes		f		
					8/25/2017		i x		

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$26.77

16	M6061T6R1.250	✓	6061-T6 Round Bar 1.250"	✓	8/25/2017	20.00	✓	\$3.69	\$73.76
					Yes		f		
					8/25/2017				

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM ROUND BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

SPR-8-23,

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO37486

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 8 of 9

Order From :

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

Contact Name

Vendor Phone

800 667 4248

Ship To Contact

Ship To Phone

Ship Via:

Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Total: \$73.76

17 M6061T6S.125 ✓ 6061-T6 .125 Sheet 8/25/2017
Yes
8/25/2017

32.00 ✓ \$6.46 \$206.57
sf

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

Line Total: \$206.57

18 71401-45 PROCUREMENT QUALITY CLAUSES 8/25/2017

1.00 \$0.00 \$0.00

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

SPD-8-23

Line Total: \$0.00

PO Instructions: quotation, sou0052051

Note:

8/21/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO37486**

Purchase Order Date 8/21/2017

PO Print Date 8/21/2017

Page Number 9 of 9

Order From :

ACIER OUELLETTE INC.
935 BOUL. DU HAVRE
VALLEYFIELD, QC J6S 5L1
CA

VC-CAM002

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 800 667 4248

Ship To Contact

Ship To Phone

Ship Via: Yours ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

PO Total:

\$4,019.73

PO Instructions: quotation, sou0052051

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 8/21/2017

**ACIER OUELLETTE INC.**

935, Boul. du Havre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0052051

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Customer N° CLI0001056
Date 2017/08/17
Revision N° 0
Prices valid until 2017/08/24
Your Order N°
Processed by BERNARD
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 1

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
PLAT 17-4 PH 1/4 X 4 N 1 X 12' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	365.000	365.00
BOND 17-4 3/4" DIA N 1 X 12' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	102.000	102.00
ALU SHEET .040 (18G) 2024-T3 5A (4 X 12) FEAL-0404122024A 3117 1 X 4' X 12' 3-4 DAYS BARE	27.02	48.00	PI2_\$CLB	1.00	UN		1.00	202.940	202.94
ALU SHEET .064 (14G) 2024-T3 (4 X 12) FEAL-0644122024 3166 3 X 4' X 12' 3-4 DAYS BARE	129.74	144.00	PI2_\$CLB	3.00	UN		3.00	324.770	974.31
HEXAGONE SS303 1/2 N 1 X 12' R/L 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	51.000	51.00
ROUND SS 1/2 303 (12R) RSS-12303-12 5726 2 X 12' R/L STOCK	16.01	24.00	PI_\$CLB	24.00	PI		2.00	27.210	54.42
ROUND SS 5/8 303 N 1 X 12' R/L 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	42.000	42.00
ROUND SS 3/4 303 (12R) RSS-34303-12 5760 4 X 12' R/L STOCK	72.10	48.00	PI_\$CLB	48.00	PI		4.00	58.750	235.00
ROUND SS 303 1" N 2 X 12' R/L 2-3 DAYS	0.00	2.00	UN	2.00	UN		2.00	99.000	198.00
FLAT SS304 3/4 X 2 1/2 N 1 X 12' R/L 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	280.000	280.00

préavis en fonction de l'évolution des prix de l'acier sur le marché.
Cette offre est sujette et conditionnelle à l'approbation du crédit.

Date :

Next Page...

37040



ACIER OUELLETTE INC.

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0052051

Billed to

DART AEROSPACE LTD
1270, ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2017/08/17
Revision N  0
Prices valid until 2017/08/24
Your Order N 
Processed by BERNARD
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 2

Product N� and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND SS 1 304 (12R) RSS-1-12 5712 1 X 12' R/L STOCK	32.04	12.00	PI_\$CLB	12.00	PI		1.00	94.820	94.82
SHEET SS 11G SS304-2B (4 X 8) FESS-11G483042B 3402 1 X 4' X 8' STOCK	168.00	32.00	PI2_\$CLB	1.00	UN		1.00	391.360	391.36
SHEET SS 18G SS304-2B (4 X 8) FESS-18G483042B 3425 2 X 4' X 8' STOCK	134.40	64.00	PI2_\$CLB	2.00	UN		2.00	171.360	342.72
SHEET SS 16G SS304-2B (4 X 8) FESS-16G483042B 3419 2 X 4' X 8' STOCK	168.00	64.00	PI2_\$CLB	2.00	UN		2.00	208.280	416.56
SHEET SS 24G SS304-2B (4 X 8) FESS-24G483042B 3441 1 X 4' X 8' STOCK	33.60	32.00	PI2_\$CLB	1.00	UN		1.00	92.720	92.72
ROUND 4130 3/8 NOT AVAILABLE 5/16 1 X 6' 3-4 DAYS N , 375.	0.00	1.00	UN	1.00	UN		1.00	185.000	185.00
FLAT ALU 1/8 X 3/4 6063-T5 (21) FAL-1834-21 2551 2 X 21' STOCK	4.70	42.00	PI_\$CLB	2.00	UN		2.00	6.490	12.98
FLAT ALU 1 1/4 X 2 6061-T6 (12) FAL-1142-12 2453 1 X 12' STOCK	35.28	12.00	PI_\$CLB	1.00	UN		1.00	112.530	112.53
FLAT ALU 2 X 4 1/2 1 X 12' 4-5 DAYS N	0.00	1.00	UN	1.00	UN		1.00	502.000	502.00
ROUND ALU 9/16 6061-T6 (12) RAL-916-12 5178 17 X 12' 3-4 DAYS	59.77	204.00	PI_\$CLB	17.00	UN		17.00	12.163	206.78

pr avis en fonction de l volution des prix de l'acier sur le march .
Cette offre est sujette et conditionnelle   l'approbation du cr dit.

Date :

Next Page...

**ACIER OUELLETTE INC.**

935, Boul. du H vre
Salaberry de Valleyfield (Qu bec) J6S 5L1
T l.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0052051

Billed to

DART AEROSPACE LTD

1270 , ABERDEEN ST.
HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att : CHANTAL LAVOIE T l.: 613-632-5200

Customer N  CLI0001056
Date 2017/08/17
Revision N  0
Prices valid until 2017/08/24
Your Order N 
Processed by BERNARD
Salesman JOSIANNE
Carrier OUELLE SDV
Credit Terms Net 30 Days
Page 3

Product N� and description	Weight	Qty	U/M	Price	Pcs Nb	Price	Amount
ROUND ALU 3/4 6061-T6 (20) RAL-34-20 5156 1 X 20' STOCK	10.46	20.00	PI_\$CLB	1.00 UN	1.00	26.770	26.77
ROUND ALU 1 1/4 6061-T6 (20) RAL-114-20 5120 1 X 20' STOCK	28.82	20.00	PI_\$CLB	1.00 UN	1.00	73.760	73.76
ALU SHEET 1/8 6061-T6 (4 X 8) FEAL-18486061 4256 1 X 4' X 8' STOCK	56.45	32.00	PI2_\$CLB	1.00 UN	1.00	206.570	206.57
FLAT A2 1/2 X 1 1/4 2 X 136" 5-7 DAYS 11.3333	0.00	2.00	UN	2.00 UN	2.00	245.000	490.00
SURCHARGE ENERGETIQUE FRAIS_ENERGETIQUE			\$				3.95

Total Weight (Lbs) 976.39**Important**

This offer is based on availability and current pricing conditions that may be revised upon
re ception of the order. L' volution des prix de l'acier sur le march .
This offer is subject to conditions and approval of the credit.
Approved and Accepted by : _____ Date : _____

Sub-total 5 663.19

TVH-13 736.21

Total (\$CAD) 6 399.40